**YERASSYL KOSHAN**

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**EDUCATION**

**University of Illinois Urbana-Champaign** Urbana, USA

Professional Science Master, Geographic Information Science, GPA: 3.98/4.00August 2019 – Present

**Karaganda State University**, Department of Geodesy and Mine Surveying Karaganda, Kazakhstan

Bachelor of Technic and Technology, Geodesy and Mapping, GPA: 3.71/4.00 June 2016

**EXPERIENCE**

**UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN LAB** Urbana, USA

**Research Assistant**  March 2020 – September 2020

* Successfully created an advanced Augmented Reality tool for citizen engagement in urban areas’ development
* Used BIM and GIS skills to illustrate complex 3D models of buildings and landscape designs in AR environment

**GEOLASER, LLC** Nur-Sultan (Astana), Kazakhstan

**Head of 3D scanning Department**  May 2017 – August 2019

* Managed 20 people in projects in Geodesy and 3D scanning while controlling the department’s work quality
* Managed the LiDAR scanning of the Pavlodar Aluminum factory and decreased planned field work time to 50% by using combined reality capturing method
* Directed inspection of Abu-Dhabi Plaza by using scanning and BIM systems, created the model of automated point cloud pre-processing which increased the profit of project to 30%
* Developed the methodology and managed the LiDAR scanning, first in Kazakhstan, of the 445-meter length vertical underground shaft (Nurkazgan mine)

**3D scanning Specialist**  July 2016 – May 2017

* Worked with 3D LiDAR scanners, total stations, GNSS receivers and performed post-data processing
* Implemented the usage of framework for the distributed storage and processing of very large datasets, which resulted in significant increase in data processing efficiency and 10% increase in followed projects’ profitability

**AUTODORSEVICE-NS, LLC** Karaganda, Kazakhstan

**Surveyor** July 2015 – July 2016

* Calculated the volume of materials, created as-built scheme and layout of road layers to guide construction
* Rectified geodetic network in Karaganda-Aktay road to increase the accuracy of geodetic works during the construction of the road’s highest layer
* Optimized material usage during the construction of base layer, resulting in a 5% decrease in cost

**ADDITIONAL TRAINING**

* Building and construction inspection with 3D Scanner, Trimetari, St. Petersburg, 2017
* LiDAR scanning by using Leica scanners and post processing with Leica Cyclone, Navgeocom, Moscow 2016

**SKILLS**

**Computer:** ArcGIS, ArcGIS Pro, QGIS, Unity, Bentley MicroStation, Autodesk Revit, Navisworks, Leica Cyclone, 3D Reshaper, SketchUp, Python, R, SQL, ENVI, Google Earth Engine, Microsoft Office: Access, Excel, Word, PowerPoint, Project

**Tools:** Leica ScanStation P40, Leica ScanStation C10, Trimble and Leica total stations and GPS receivers

**Language:** Kazakh (native); Russian (fluent); English (fluent)

**HONORS AND AWARDS**

* University of Illinois at Urbana-Champaign. GIS day. Runner-up, Cartographic Design (2019)
* Recipient of national “Bolashak” scholarship, providing full funding for Master’s degree studies in the U.S. (2018)